73-1-20/26

The Precipitation of Cobalt from Zinc Sulphate Solutions by Permanganate.

of cobalt ions. Trivalent iron was not found to be suitable. Manganese has to be completely acidified to achieve the total separation of cobalt from zinc sulphate solutions when a large excess of manganes ions is present. Tables on the relation of the oxidation of cobalt to the zinc content in the solution (graph 1), on the relation of the pH of the zinc sulphate solution and of the concentration (graph 2), the separation of cobalt in relation to the content of divalent iron and to the content of divalent manganese (graphs 3 and 4) are given. It is shown in table 1 that the separation of cobalt depends on the zinc content and on the pH value, as well as on the presence of tri- and di-valent iron (table 2). Table 3 gives data on the oxidation of cobalt at partial oxidation of the divalent manganese. There are 5 graphs, 3 tables and 15 references, 13 of which are Slavic.

SUBMITTED: October, 30, 1956.

ASSOCIATION: Institute of General and Inorganic Chemistry, Academy of Sciences, Ukrainian S.S.R. (Institut Obshchey i Neorganicheskoy Khimii AN USSR.)

Card 2/3

50V/21-58-10-11/27

AUTHORS:

Zosimovich, D.P. and Nechayeva, N.Ye.

TITLE:

The Simultaneous Discharge of Cadmium and Nickel Ions (Sovmestnyy razryad ionov kadmiya i nikelya)

PERIODICAL:

Dopovodi Akademii nauk Ukrains'koi RSR, 1958, Nr 10, pp 1075 - 1078 (USSR)

ABSTRACT:

According to existent classical idea, the basic condition for the simultaneous discharge of ions is the equality of potentials for the discharging of ions. O.A. Yesin / Ref 2 / developed the concept on the simultaneous discharge of metal and hydrogen ions. A.L. Rotinyan and V.L. Kheyfets / Ref 3 / studied conditions for the simultaneous discharge of ions in refining nickel and cobalt. An investigation into the simultaneous discharge of cadmium and nickel ions represents an important theoretical problem which was studied by the authors by employing the method of polarization curves taken during the process of electrolytic isolation of cadmium from the electrolyte. The polarization curves obtained are shown in graphs 1 and 2. It turned out that the equality of the deposition potentials of metals and the concentration of ions in the electrolyte does not always lead to the simul-

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The Simultaneous Discharge of Cadmium and Nickel Ions SOV/21-58-10-11/27

of nickel and cadmium. The investigation showed that only cadmium is deposited on the cathode, in spite of the approximate equality of their potentials. The concentration of Ni in Cd varied from 0.0001 to 0.01 per cent in the presence of 1-n NiSO in the electrolyte. There are 2 graphs, 1 table and 5 Soviet references.

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii AN UkrSSR (Institute of General and Inorganic Chemistry of the AS UkrSSR)

PRESENTED:

By Member of the AS UkrSSR, Yu.K. Delimarskiy

SUBMITTED:

April 13, 1958

NOTE:

Russian title and Russian names of individuals and institutions appearing in this article have been used in the trans-

1. Nickel--Purification 2. Cadmium--Purification 3. Electrolytes--Performance 4. Ions--Facilarmance

Card 2/2

ZOSIMOVICH D.P.; BOGATOVA, N.F.

Use of soluable nickel-molybdenum and nickel anodes for the formation of nickel-molybdenum alloys from alkaline electrolytes.

Zhur.prikl. kim. 31 no.3:429-434 Mr '58. (MIRA 11:4)

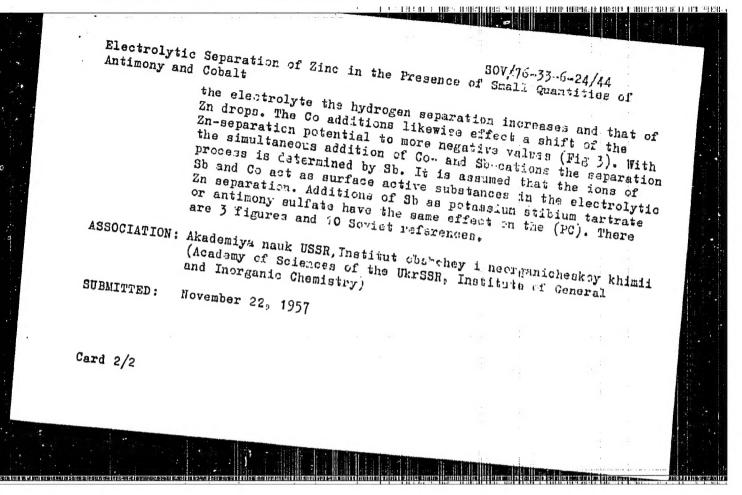
1.Institut obshchey i neorganicheskoy khimii AN Ukrainskoy SSR. (Nickel-molybdenum alloys) (Electroplating)

30V/76-35-6-24/44 5(4) Zosimovich, D. P., Bogatova, N. F. AUTHORS: Electrolytic Separation of Zinc in the Presence of Small TITLE: Quantities of Antimony and Cobalt (Elektroliticheskoye vydeleniye tsinka v prisutstvii malykh kolichestv sur'my i kobal'ta) Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 6, pp 1324-1327 PERIODICAL: The quantity of electrolytically separated zine and that ABSTRACT: of the hydrogen developed at the cathode in the process depends among other things on the impurities in the electrolyte. An investigation is made here of the simultaneous influence of

by the method of plotting polarization curves (PC) on zinc electrodes in a standard electrolyte (60 g/l Zn and 100 g/l H₂SO₄) with antimony— (0.05, 0.1, 0.2, 1.0 and 5.0 mg/l) and cobalt additions (20 mg/l). The polarization curves obtained reveal (Figs 1, 2), that an addition of only 0.05 mg/l Sb shifts the (PC) to more negative values, while an increase in the Sh addition agrees the (PC) to which to more electro-

antimony and cobalt in the electrolytic separation of zinc

in the Sb addition causes the (PC) to shift to more electrocard 1/2 positive values, i.e. with a rise in the Sb concentration in



ZOSIMOVICH, D.P. [Zosimovych, D.P.]; NECHATEVA, N.Te. [Nechieva, H.IE.]

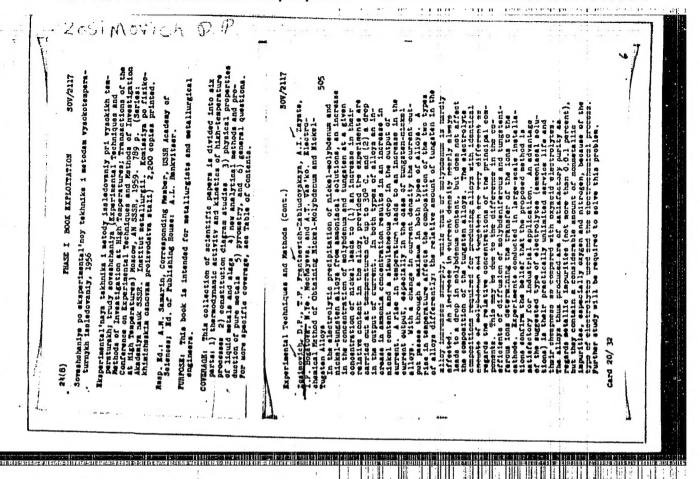
Simultaneous discharge of cadmium and nickel ions. Dop.AN UESR.
no.10:1075-1078 '58. (MIRA 12:1)

1. Institut obshchey i neorganicheskoy khimii AN UESR. Predstavil akadenik AN USSR Yu.K.Delimarekty [IU.K.Delimarektyi].

(Electroplating) (Cadmium) (Nickel)

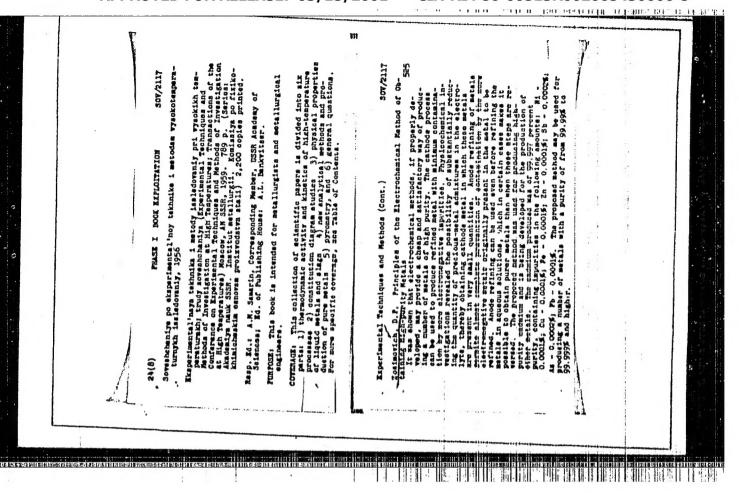
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"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065430006-5



S/075/60/026/005/015/019 B004/B065

AUTHORS:

Zosimovich, D. P., Antonov, S. P.

TITLE:

Stress of Electrodeposits of Chromium Under Different

Conditions of Electrolysis

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 5,

pp. 663 - 668

TEXT: The purpose of the present work was to study the effect of the stress of electrodeposited chromium upon the development of cracks and surface defects. Flexible steel cathodes 0.1 mm thick, which had been varnished on one side, were used for the purpose, and M. L. Pertsovskiy's method was applied. The experimental conditions were a Gr₂O₃ concentra-

tion of 100-600 g/l, a current density of 10-100 a/dm², and a temperature of 22°C. The authors determined: 1) the weight of the cathode before and after the experiment; 2) the deflection z of the free end of the cathode; 3) the function z = f(t); 4) the function $t = f(\mu)$, where μ is the thickness of the deposit expressed in microns; 5) the function

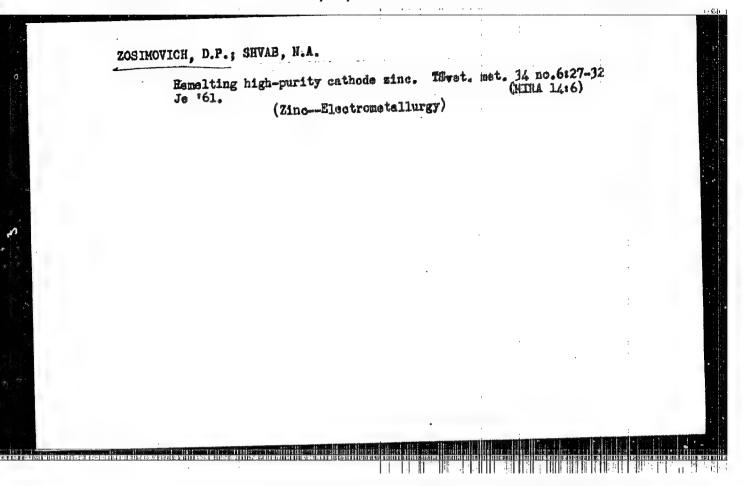
Card 1/2

Stress of Electrodeposits of Chromium Under Different Conditions of Electrolysis s/073/60/026/005/015/019 $z=f(\mu)$. The stress σ was calculated from the equation: $\sigma=Ed^2\pi/3\mu l^2$ (E - modulus of elasticity of the cathode; d - its thickness; 1 - its length). z rose at first with μ , after which it decreased as a result of cracking in the deposit. As a rule, stress increased with current density and temperature up to 50°C. E attained values between 1960 and 6100 kg/cm². Between 0° and 11°C, stress changed only slightly, and the deposits showed cracks already with a thickness of 1 - 1.5 µ, probably due to an increase in the hydrogen content. The decrease of stress above 50°C was ascribed to the formation of stable, subic Cr crystals. The minimum of stress at 20-25°C might be due to an increase in stability of hexagonal Cr at these temperatures. N. P. Fedetlyev, Yu. M. Pozin, V. S. Ioffe, A. L. Rotinyan, A. T. Vagramyan, Yu. S. Tsareva, Arkharev, and S. A. Nemnonov are mentioned. There are 6 figures and 20 references: 1! Soviet, 2 US, 2 British, 1 Roumanian, 4 German, and ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR (Institute of General and Inorganic Chemistry of the AS UkoSBR) SUBMITTED: April 1, 1959 Card 2/2

कर । सर्वे वे मानोर्वे कर्ने स्थिति हो महार सकते हैं विकास की नेपाल कर्ने

Electrochemical investigation of a simultaneous discharge of cadmium and zinc ions using the tagged atom method. Radiokhimiia 3 no.6:743-748 '61. (MIRA 14:12)

(Zinc—Isotopes)
(Cadmium)
(Electrochemistry)



25226

S/080/61/034/008/009/018 D204/D305

18 3100

AUTHORS:

Zosimovich, D.P., Kladnitskaya, K.B. and Grisevich,

A.N.

TITLE: Electrochemical production of pure cadmium

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 8, 1961.

1764-1769

TEXT: The present paper describes experiments carried out in a glass electrolytic cell of 1 liter capacity using ${\rm CdSO_4}$ as electrolyte. Two anodes, cast from commercial Gd Kd-0 containing considerable impurites (shown in Table 1), and a Gd cathode of metal containing small amounts of metals which separates at potentials more taining small amounts of metals which separates at potentials more negative than that of Gd separation (i.e. Ni, Ye and An) were used. With optimum conditions for electrolysis (\hat{D}_k of 100 A/m², temp. 3500 With optimum conditions for electrolysis (\hat{D}_k of 100 A/m², temp. 3500 with optimum conditions for electrolysis (\hat{D}_k of 100 A/m², temp. 3500 period of 8 hours) about 0.7 kg Gd was produced. Table 1 shows period of 8 hours about 0.7 kg Gd was produced and it is clear that relevant data on the purity of the Gd produced and it is clear that the use of a flowing electrolyte with external intermediate purification substantially reduces the Cu and Pb contents of cathode

Card 1/3

25226 \$/080/61/034/008/009/018 0204/0305

Electrochemical production ...

residues. Methods of purifying CdSO4 solutions from Cu were studied. The solution was passed through a column of Cd cuttings at a certain speed and was also agitated with Cd cuttings. The Cd cuttings were first treated by agitation with dilute 12504 to remove oxide film and basic salts. Optimum conditions for purifying the solution by Cd metal are: S/V 1.6, duration 30 - 60 mins; temperature 18 - 20°C, acidity (minimum) $0.5~\rm g/1~H_2SO_4$ With these conditions, the Cu content can be reduced to 0.02 - $0.05~\rm mg/1$, the degree of purification being independent of the Cd content of the solution. After purification from Cu, the acid solution was purified from Pb by co-precipitation with SrSO4. The experimental method developed was tested on an industrial scale in a pilot plant. The cathode metal produced was carefully washed, remelted in a $\rm H_2$ atmosphere in a special furnace. The remelted Gd contained the following proportions of impurities: (%) Gu - 1.10-4, Ni - 0.5-10-4, Pb - 4.5-10-4, Zn - 6.10-4, Fe - 5.10-4, Sb - 0.6-10-4, T1 - 3.6-10-4. The purity of the Cd was, thus, 99.998%. Further purification was effected by zone refining. There are 4 tables and 14 ref-Card 2/3

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Electrochemical production		S/080/61/034/008/009/018 D204/D305			
erences: 13 Soviet-bloc and	1 non-Soviet	-bloc.	<i></i>		
October 18,	1960	1	:		
Table 1 Legend: Impurity content in Cd before and		,			
purity B) Im-	Д) Содерна нео при- несей	С Сопернаями принеізні и натодной навмии (%)		Д) Стоинь рафинярования	
ty content in continui-	# #HORE (*/a)	бей протона	wilktatedu o	бея про- тока ком	-
cadmium (%), D) Degree of refining, E) Without Harrons recirculation, F) With Connect recirculation, G) Gu, Ni Meneso Pb, Fe, Zn.	0.01 6 0.13	0.0001 0.0002 0.009 0.0001 0.0004	0.0001 0.0032 0.001 0.0011 0.0004	10 100 650 650 3 30 100 100 12 12	
		•			X
Card 3/3	•	• •	;		

S/659/62/008/000/027/028 1048/1248

AUTHORS:

Vas'ko, A.T., and Zosimovich, D. I., P., or N.

TITLE:

Electrochemical preparation of nickel-tungsten alloys

from acid peroxide electrolytes

SOURCE:

Akademiya nauk SSSR. Institut metallurgii, Issledovaniya

po zharoprochnym splavam. v.8. 1962. 217.223

TEXT: Nickel-tungsten alloys were deposited on a Pt cathode from electrolytes containing Na tungstate 30 g./l., hydrogen peroxide (30% solution) 21 ml./l., horic acid 50 g./l. sulfuric acid to pH 1.9-2.3, and nickel sulfate 0.01-600 g./l., at 50°C and a c.d. of 10 amp./sq.dm., using Ni anodes. Deposits with high W contents were obtained from electrolytes containing small amounts of Ni, but the current efficiency was extremely poor (0.03%); the deposits from electrolytes containing 20-300 g. NiSO4/l. were of poor quality and contained non-metallic inclusions. The current efficiency with solutions containing 600 g. NiSO4/l. was about 62%, and the W content of the deposit was 25%. Increasing the Na tungstate concen-

Card 1/3

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S/659/62/008/000/027/028 I048/1248

Electrochemical preparation of ...

tration above 20 g./l. hed no effect on the W content of the deposit but reduced the current efficiency. Increasing the pH within the range 1.0 - 5.0 caused an increase in the current efficiency accompanied by a sharp decrease in the W content of the deposit; deposits with a high W content (70%) were obtained at pH below 1.5 but the rate of decomposition of the H₂O₂ was prohibitively high. The optimum H₂O₂ concentration was about 5 ml. of the 30% solution per liter electrolyte; the optimum boric acid concentration was 30 g./l. The temperature had to be maintained at 40-50°C, to prevent rapid decomposition of the H₂O₂ at higher temperatures, and to prevent crystallization of the boric acid at lower ones. The optimum c.d. was 10-20 amp./sq.dm. On the basis of the above data, the optimum process conditions are defined as follows: electrolyte composition - Na tungstate 20 g./l., NisO₄ 600 g./l., H₂O₂ (30% solution) 5 ml./l., H₂SO₄ to pH 2.1; boric acid 50 g./l.; temperature 50°C; c.d. 10 amp./sq.dm. The W content of the deposit obtained under the optimum con-

Card 2/3

S/659/62/008/000/027/028

Electrochemical preparation of...

ditions was 20%, and the energy consumption was 3.7 kw.hr./kg. deposit. The acid peroxide electrolyte has a higher stability, a clower toxicity, and is associated with higher current efficiencies than the ammonia-containing baths used for the deposition of Ni-W

Card 3/3

ZOSIMOVICH, D.P.; ZAYATS, A.I.; RUDAYA, L.K.

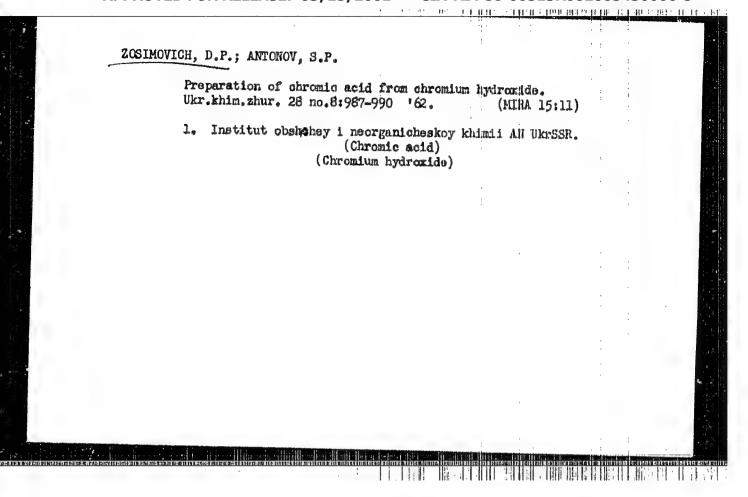
Colorimetric study of modification transformations in chromium sulfate electrolytes. Ukr.khim.zhur. 28 ma.2:150-156 '62.

(MIRA 15:3)

1. Institut obshchey i neorganicheskoy khimii AN USSR. (Chromium plating) (Chromium compounds)

"APPROVED FOR RELEASE: 03/15/2001 CIA-R

CIA-RDP86-00513R002065430006-5



S/080/62/035/006/010/013 D204/D307

AUTHORS:

Vas'ko, A. T. and Zosimovich, D. P.

TITLE:

Electrochemical preparation of Ni-W alloys from acidic

peroxide electrolytes

PERIODICAL:

Zhurnal prikladnoy khimii, v. 35, no. 6, 1962,

1302-1308

TEXT: The experiments were conducted in a cell of the usual type, with an Ni cathode and Pt or Ni anodes, over 15 min to 10 hrs, with mechanical stirring: At 50°C and with a current density (D) of 10 A/dm² and using an electrolyte of Na2WO4 30 g/l, 30% H2O2 21 ml/l, H3BO3 50 g/l and H2SO4 to give pH 1.9 - 2.3, it was found that the best alloys (~25% W) were deposited from solutions to which 300 - 600 g NiSO4/l were added. Under the same conditions and with 400 g NiSO4/l of electrolyte, the optimum Na2WO4 content was ~20 g/l, which gave an alloy of ~25% W, with a current efficiency Card 1/3

Electrochemical preparation of ... S/080/62/035/006/010/013 (p) > 60%. Using an electrodical preparation of ... D204/D307

(ρ)>60%. Using an electrolyte containing 30 g Na₂WO₄/1, 420 g NisO₄/1 and 20 ml of 30% H₂O₂/1, and adjusting the pH with H₂SO₄, the preferred pH range was 2.0 - 2.2. With 20 g Na₂WO₄, 400 g small (5 ml/l) additions of H₂O₂ raised the W content and ρ of the the W content. Additions of 30 - 50 g/l of H₃BO₃ to the electrolyte containing optimum amounts of Na₂WO₄, H₂O₂ and NisO₄, at pH 2.0 - temperature was 40 - 50°C. Increasing the D lowered the W content end of the alloy and raised ρ, but at D > 20 A/dm² the deposits were partly dendritic; low D's (~2.5 A/dm²) yielded dense, light colored ings. The recommended conditions (electrolyte - Na₂WO₄ 20 g/l, Card 2/3

Electrochemical preparation of ... S/080/62/035/006/010/013

2.1; temperature - 50°C, D = 10 A/dm²) give an alloy containing plants of the power consumption was 3.7 kw-hrs/kg of alloy as opposed to 12 kw-hrs/kg necessary for similar alloys detables.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN SSSR (Institute of General and Inorganic Chemistry, AS SUBMITTED: May 9, 1961

ZOSIMOVICH, D.P.; KLADNITSKAYA, K.B.; DVERNYAKOVA, A.A.

Separation of trivalent iron from trivalent chromium in hydrochloric acid solutions. Zhur.prikl.khim. 35 no.7:1479-1483 J1 '62. (MIRA 15:8)

(Iron-chromium alloys) (Iron-Analysis)

(Chromium-Analysis)

ZOSIMOVICH, D.P.; KLADNITSKAYA, K.B.; DVERNYAKOVA, A.A.

Separation of trivalent chromium from bivalent iron in hydrochloric acid solutions. Zhur.prikl.khim. 35 no.7:
1484-1487 Jl '62. (MIRA 15:8)

(Iron-chromium alloys) (Iron-Analysis)

(Chromium-Analysis)

ZOSIMOVICH, D.P.; ANTONOV, S.P.

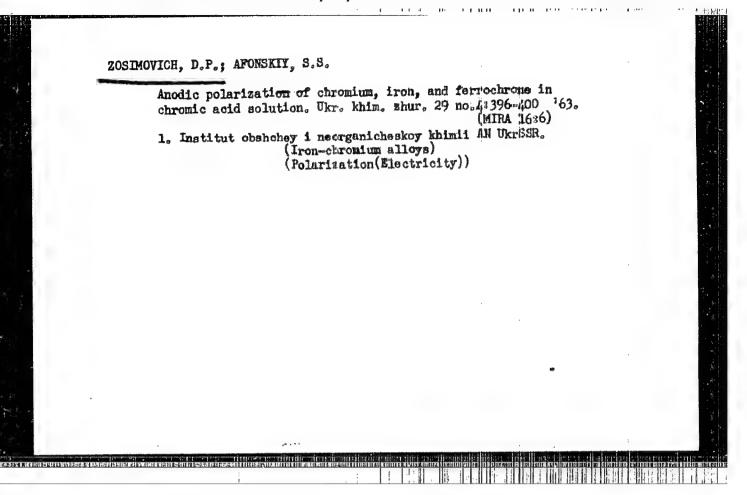
Physicochemical study of polychromate electrolytes. Zhur.prikl.khim. 35 no.12:2791-2293 D '62. (MIRA 16:5)

(Chromates) (Electrolytes)

ZOSIMOVICH, D.P., kand.khim.nauk; SHVAB, N.A.; BELINSKIY, V.N.

Electromechanical preparation of pure manganese by the refining of high-phosphorus manganese alloys. Ma. i gornarud. prom. no.3:35-36 (MIRA 17:1)

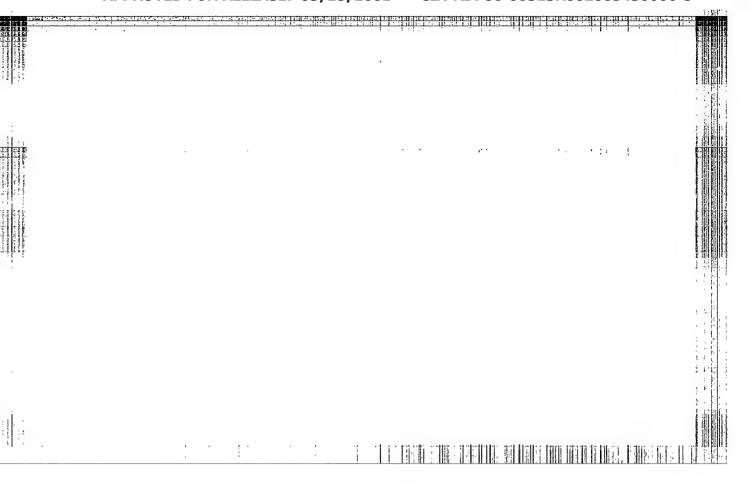
1. Institut obshchey i neorganicheskoy khimid AN UkrSSR.

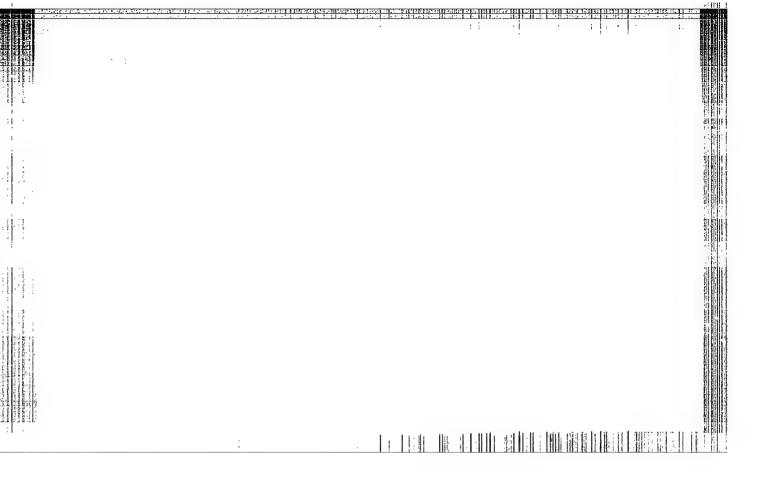


ZOSIMOVICH, D.P.; ANTONOV, S.P.; BUDKEVICH, V.V.

Anodic oxidation in chromichromate electrolytes. Ukr.khim.zhur.
29 no.6:642-647 '63. (MIRA 16:9)

1. Institut obshchey i neorganichaskoy khimii AN UkrSSR.
(Chromium compounds) (Oxidation, Electrolytic)





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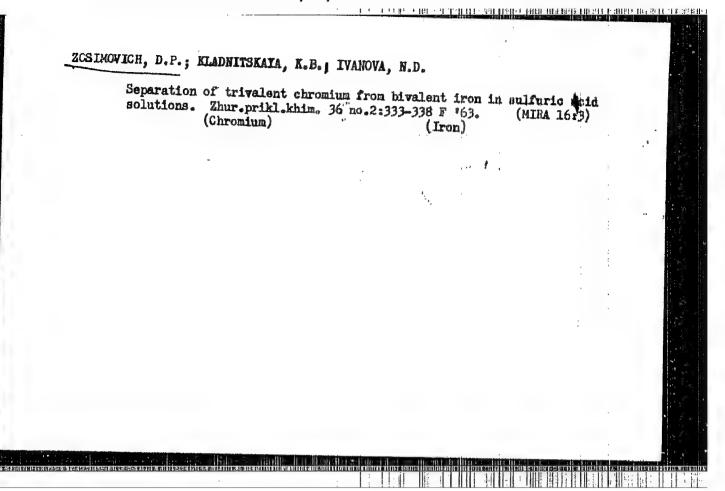
Use of a rotating disk electrode in the study of anodic oxidation of chromium. Ukr. khim. zhur. 29 no.10:1111-1112 163. (MIRA 17:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

NEMTSOV, V.D.; SKIBINSKIY, G.V.; ZOSIMOVICH, D.P.

Oscillograph for electrochemical measurements. Ukr. khim. zhur. 29 no.10:1113-1115 '63. (MIRA 17:1)

1. Institut obshchey i neorganicheskoy khimii AN UhrSFR.



ZOSIMOVICH, D.P. [Zosymovych, D.P.]; ANTONOV, S.P.

Preparation and regeneration of chromic acid by anodic oxidation of chromium hydroxide. Khim.prom. [Ukr.] no.1:10-12 Ja-Mr 164. (MIRA 17:3)

s/0073/64/030/001/0059/0062

ACCESSION NR: AP4011975

Zosimovich, D.P.; Nemtsov, V.D.

AUTHORS:

Cathodic polarization of the silicon electrode during the electro-deposition of tin and nickel TITLE:

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 1, 1964, 59-62

TOPIC TAGS: tin electrodeposit, nickel electrodeposit, silicon electrode, silicon semiconductor electrode, polarization, rectifying contact, ohmic contact, p-type silicon, n-type silicon, hole conductor, electron conductor, cathode polarization

ABSTRACT: The polarization accompanying the electrodeposition of tin or nickel onto samples of silicon monocrystals, p- or n-type, tin or nickel onto samples of silicon monocrystals, poor notype, both having the same (111) orientation, either polished with boron carbide or etched with SR-8, is shown in the enclosed figures. Greater polarization is used to deposit the metals onto a semiconductor electrode than onto the metal electrode. Polarization of the

Card 1/67

CIA-RDP86-00513R002065430006-5" APPROVED FOR RELEASE: 03/15/2001

ACCESSION NR: AP4011975

mechanically treated silicon is higher than in the stoned electrode, apparently due to the presence of deformed layers, polymystalline powders and oxide film. The hole-type (p-type) silicon is polar-12ed more strongly than the electron type. In electrodepositing nickel onto the silicon electrode, polarization of the electrode with the etched surface is higher than of the polished. The character of the electrolytic contacts: for nickel on electron or hole type silicon--rectifying; for tin on n-type silicon--ohmic; for tin on p-type silicon--rectifying. Orig. art. has: 2 figures.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN UkrSSR (Institute of General and Inorganic Chemistry AN WarSSR)

SUBMITTED: 10Ju163

DATE ACQ: 14Feb64

ENCL:

SUB CODE: PH, ML

NO REF SOV: 003

OTHER:

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"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065430006-5

STENDER, V.V., etv. red.; ZOSIMOVICH, D.P. zam. etv. red.;
DELIMARSKIY, Yu.K., red.; LOSHKAREV, M.A., red.; NECHAYEVA,
N.Ye., red.; NIKIFOROV, A.F., red.; BYCHKOVA, R.I., red.

[Hydroelectrometallurgy of chlorides; reports] Gidroelektrometallurgia khloridov; doklady. Kiev, Naukova dumka, 1964.
178 p. (MIRA 17:11)

1. Vsesoyuznyy seminar po prikladnoy elektrokhimii. 5th, Dnepropetrovsk, 1962. 2. Dnepropetrovskiy khimiko-tekhnologicheskiy institut (for Stender).

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ZOSIMOVICH, D.P.; NEMTSOV, V.D.

Cathodic polarization of a silicon electrode in the electrodeposition of tin and nickel. Ukr. khim. zhur. 30 no.68 59-62 '64. (HIRA 17:6)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

02423-67 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) AT/JD ACC NR: AP6031517 SOURCE CODE: UR/0073/66/032/009/0957/0960 AUTHOR: Zosimovich, D. P.; Nemtsov, V. D. B ORG: Institute of General and Inorganic Chemistry, AN UkrSSR (Institut obshchey i neorganicheskoy khimii AN UkrSSR) TITLE: Photoelectric effect in polarization of silicon in solutions of metal SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 32, no. 9, 1966, 957-960 TOPIC TAGS: electrolytic deposition, indium, tin, entimony, electrode polarical, silicon, electrode, surface ionization, photoelectric method, photoelectric method, property ABSTRACT: The silicon-electrolyte solution interface has been studied in solutions of indium, tin and antimony chlorides by recording variations in the surface photopotential of the silicon electrode versus its steady-state electric potential under different conditions of polarization. A difference was noted in the photoelectric effect on the n-versus p-type silicon and on the polished versus etched silicon surface in all solutions studied. The photopotential drop on p-type silicon in the metal chloride solutions was interpreted as determining the deposition potential of the metal. The photopotential of the etched n-type silicon in all metal-containing solutions decreased sharply with the electrode potential shift toward the region of anodic polarization. The photopotential versus steady-state electrode potential data Card 1/2 UDC: 546,148+546,28 The state of the s

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electrol	tion and ind yte interfac Orig. art.	e, depe	nding on t	the co	lectro nduc t i	nic co vity t	Abe an utrum	ravion id sux	face	tread	tnent	of (JK)
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AUTHOR: Zosimovich, D. P.; Nemtsov, V. D.

ORG: Institute of General and Inorganic Chemistry, Academy of Sciences UkrSSR (Institut obshchey i neorganicheskoy khimii AN UkrSSR)

TITLE: Polarization of a silicon electrode during the electrolytic deposition of indium and antimony

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 32, no. 1, 1966, 20-23

TOPIC TAGS: indium, antimony, electrode, electroplating, silicon single crystal

ABSTRACT: Polarization of a silicon electrode during the electrolytic deposition of indium and antimony was studied in the $20^{\circ}-60^{\circ}\text{C}$ range as a function of the type of electrode conductivity and surface pretreatment. Indium was deposited from InCl3 (30 g/1) + HCl(10 g/l) electrolyte at pH = 1.5. Antimony was deposited from KSbOC₄H₄O₆(60 g/l) + HCl(4 ml/l) electrolyte at pH = 1.6. The silicon electrode (made of silicon single crystals) was polished and caustic treated. The effect of temperature on cathodic polarization and the oscillograms of cathodic polarization

Card 1/2 UDC: 541.13:

L 36875-66 ACC NR: AP6017651

were graphed for In and Sb deposition on p- and n-type silicon electrodes. The potential of deposition of In and Sb on n-type silicon electrode is more negative than on p-type silicon electrode. Metal deposition on silicon electrode was found to be inhibited by the presence of silicon oxide layer on the electrode surface. In depositing In on a silicon electrode, electrode polarization increases with increasing temperature. On a silicon electrode, an indium deposit produces an ohmic contact in the case of n-type conductivity and a rectifying contact in the case of p-type conductivity. For both types of conductivity, the antimony deposits on silicon electrode produced a rectifying contact. Orig. art. has: 4 figures.

SUB CODE: OF SUBM DATE: 16Sep64/ ORIG REF: 006/ OTH REF: 008

Card 2/2/12/10

ZOSIMOVICH, D.P.; SHVAB, N.A.; ANDREYCHENKO, V.G.

Conditions for the removal of impurities form manganese electrolytes. Ukr. khim. zhur. 31 no.JO:1104-1107 '65.

(MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimil AN UkrSSR.

Submitted May 7, 1964.

ANTONOV, S.P.; ZOSIMOVICH, D.P.

Kinetics of the anodic oxidation of trivalent chronium. Ukr.khim.zhur. 31 no.5:484-491 65.

(MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. Submitted Jan. 25, 1964.

<u>त्र । एक उन्नाम कृत्यमात्रा व साम्बद्धार स्थ</u>ान स्थान ।

ZOSIMOVICH, D.P.; ZAYATS, A.I.; KLADNITSKAYA, K.B.; CHEBUKINA, L.K.

Separation of Cr₃₊ from iron by crystallization of ammonium-chrome alwas. Zhur. prikl. khim. 38 no.5:979-987 My *65. (MIRA 18:11)

ZOSINOVICH, D. P.; SHVAB, N. A.; GRISEVICH, A. N.; NECHAYEVA, N. Ye.; KLADNITEKAYA, K. B. Kiev

"Die elektrochemische Gewinnung von Reinstmetallen: Zink, Kadmium und Mangan."

report submitted for 2nd Intl Symp on Hyperpure Materials in Science and Technology, Dresden, GDR, 28 Sep-20ct 65.

Institut obschey i neorganizheskoy khimii Akademii nauk UASSR, Kiev

ZOSIMOVICH, D.P.; AFONSKIY, S.S.

Effect of trivalent chromics and iron ions on the electrodeposition of chromium from chromic acid solutions. Ukr. khim. thur. 31 no.2:185-190 165. (MIRA 18:4)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

ZOSIMOVICH, D.P.; ANTONOV, S.P.; STEPANENKO, V.G.

Effect of the nature of foreign cations on the ancdic oxidation of trivalent chromium. Ukr. khim. zhur. 31 no.4:420-421 '65.

(MIRA 18:5)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

ZOSIMOVICH, D.P., kand. khinicheskikh nsuk; AFCNSEIY, S.S., inst.

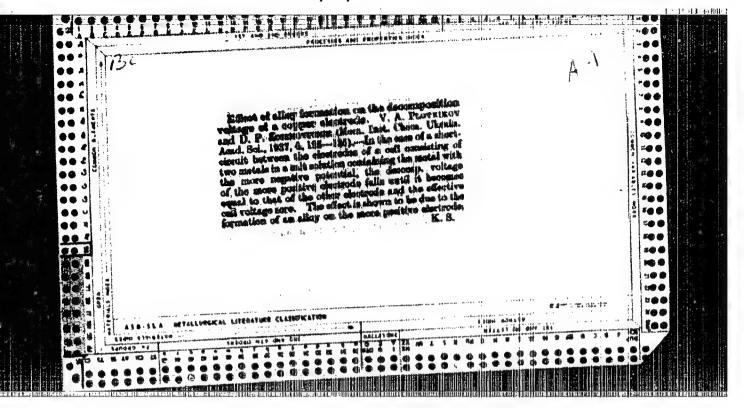
Electro position of chromium in the presence of a large quantity of threevalent chromium, iron and sulfuric acid.

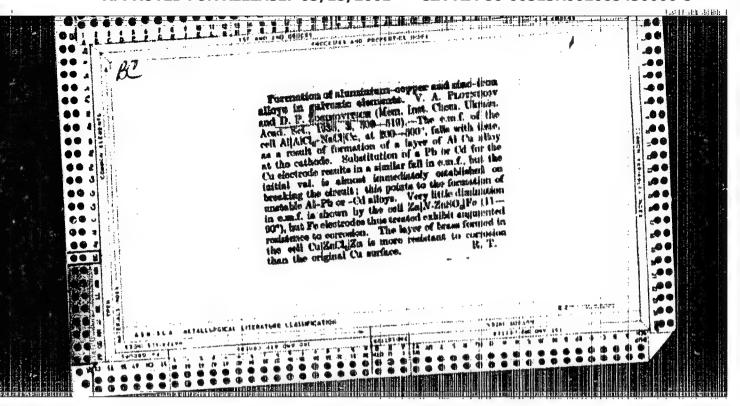
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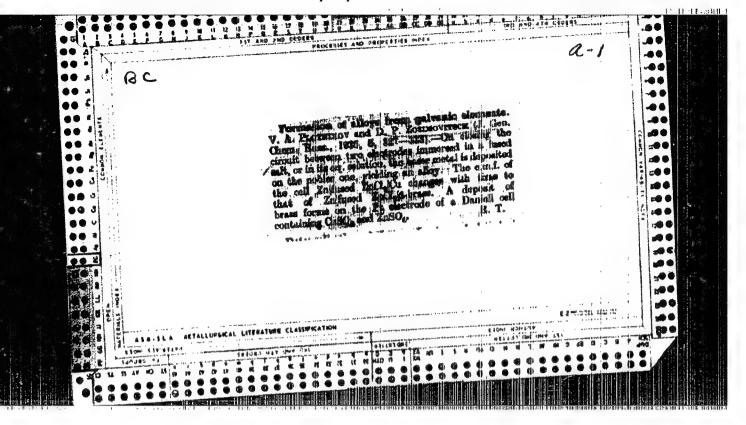
APOISKIY, S.S.; ZOSIKOVICH, D.P.

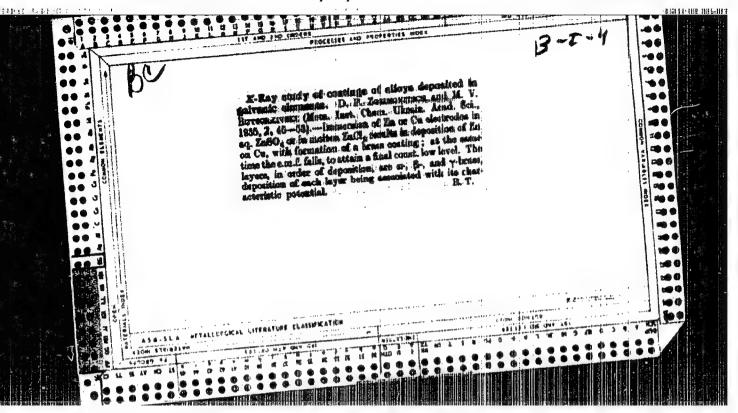
Conditions of separation of Cr6+ and Re3+ in chromic acid polutions. Thurspriklakhim. 38 no.11:4586-4889 H 1654

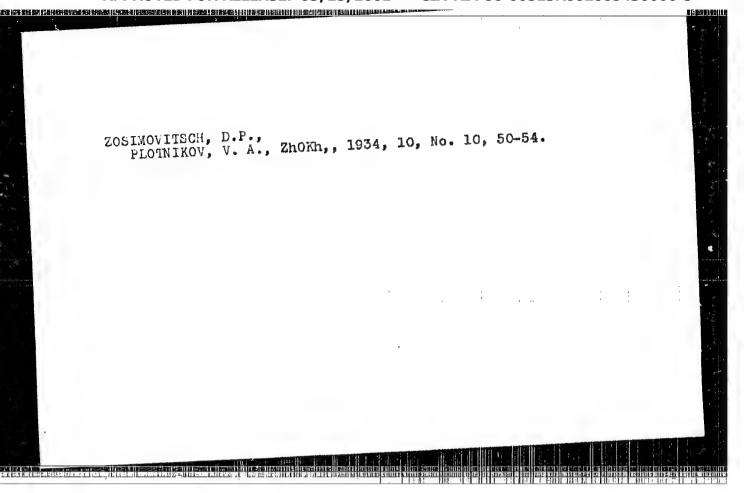
1. Submitted October 30, 1963.

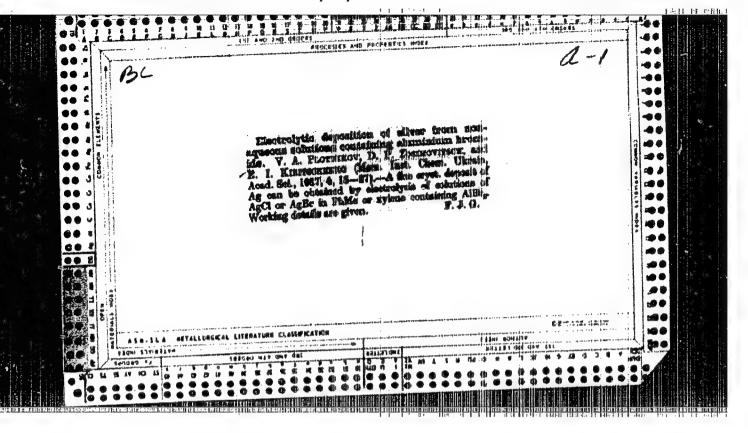


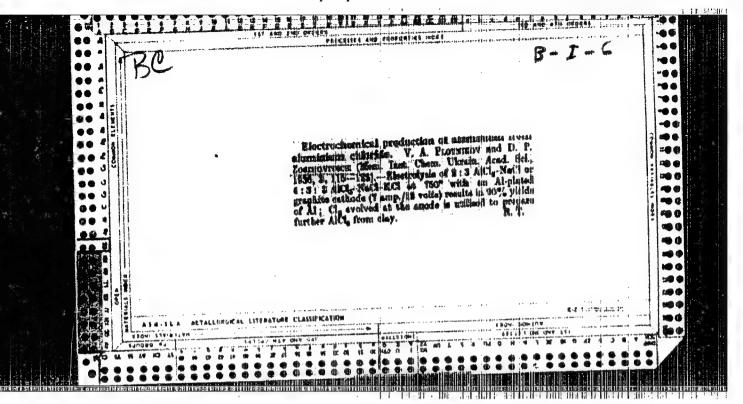


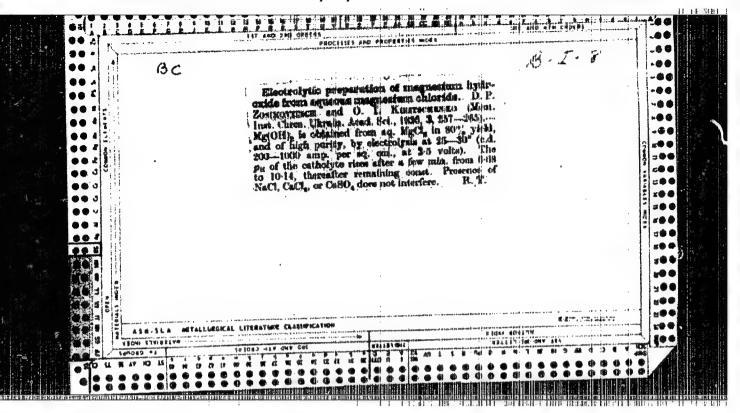


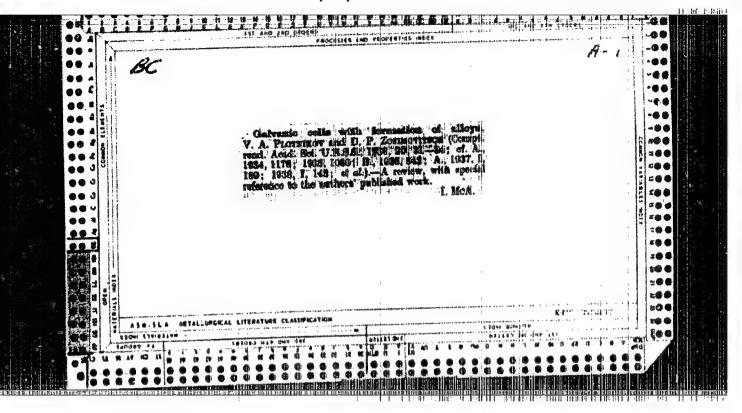


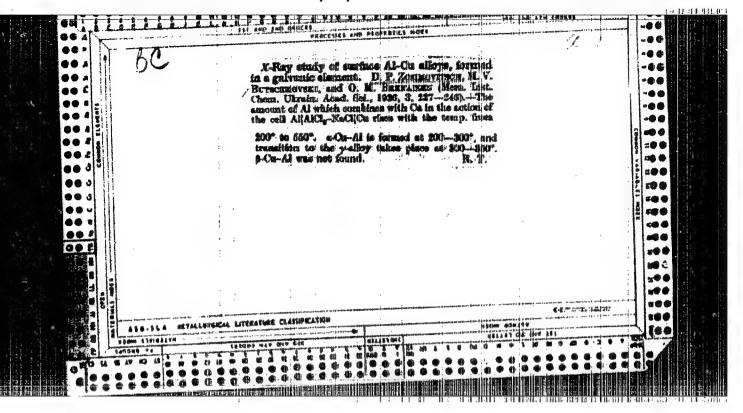


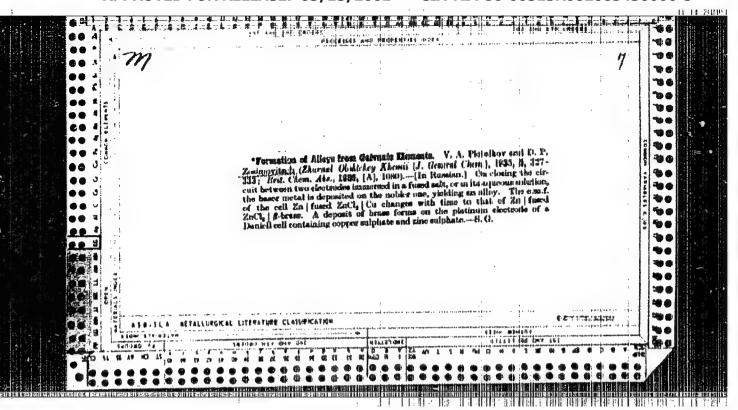


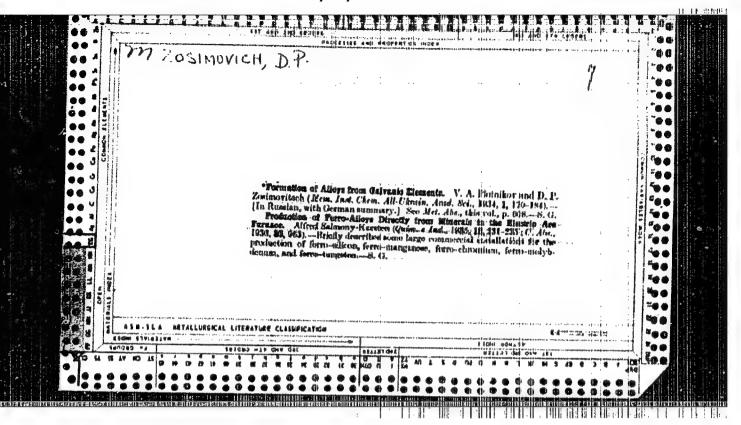












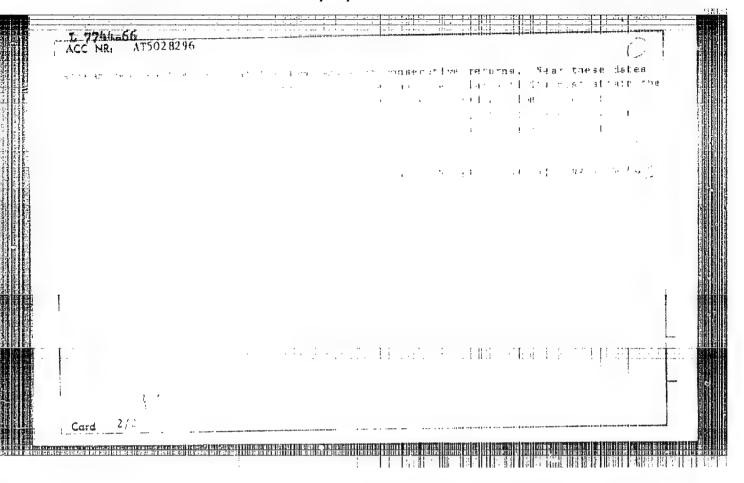
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Ukr. Edim. shur. 30 no.36:14(2)-14(1) 16(2.)

(1979, 19:11.)

i. Institut obslessey i noorganicheskoy khimii AF Farssy.

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ZCSIMOVICH, V. P.

Beets and Beet Sugar

Dynamics of leaf growth in sugar teets and its effect on yield and sugar content of biological types of various varieties. Sol. i sem., 19, No. 9, 1952.

Monthly List of Russian Accessions, Library of Congress December 1952. UNCLASSIFIED.

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing.

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Abs Jour

: Ref Zhur Biol., No 12, 1958, 53735

Author

Zosimovich, V.P.

Inst

Title

Supplementary Pollination of Seed Plants.

Orig Pub

: Sakharnaya svekla, 1957, No 6, 37-40

Abstract

: Experiments conducted for a long time by the All-Union Scientific Research Institute of Sugar Boets in different beet growing regions, confirmed the positive role of supplementary pollination in increasing the yield and the quality of the seeds, and also in intensifying vital energy in the offspring. Supplementary pollination proved to be effective not only in rainy weather but also in the presence of clear and windy weather. The increase of the seed yield from pollination averaged

1-2 cwt/ha. -- A.M. Smirnov

Card 1/1

М

Country: USSR

Category: Cultivated Plants. Commercial. Oil-Bearing.

Sugar-Dearing.

lbs Jour: NZhBiol., No 11, 1958, No 49050

land will be sown with sugar beets with segarate

fruits (single seeded or single shoot). --

A.M. Smirnov

Card : 2/2

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ZOSIMOVICH, V. P.: Doc Biol Sci (diss) -- "The evaluation of the wild and cultivated sugar beet". Kiev, 1958. 40 pp (Acad Sci Ukr SSR, Dept of Biol Sci), (KL, No 12, 1959, 127)

ZOSIMOVICH, V.P. Polyploid varieties of sugar beets. Sakh.prom. 34 no.5:56-62

My 160.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly. (Sugar beets)

New forms of plants. Nauka i zhytt	la 12 no.9:48 S	'62. (MIRA 16:
1. Chlen-korrespondent AN UkrSSR. (Plant breeding)	(Chromosome number	
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KONDRATYUK, Ye.M. [Kondratiuk, IE.M.], otv. red.; ZOSIMDVICH, V.P.; [Zosymovych, V.P.], red.; MAKAREVICH, V.R. [MEMBER] [A.], red.; POPOV, V.P., red.; KUBTSOV, L.I., red.; SOKOLAVSKIY, O.I. [Sokolovs'kyi, O.I.], red.; IL'KUN, G.M. [IL'kun, H.M.], red.; KOKHNO, M.A., red.; ANDRIYCHUK, M.D. [Andriichuk, M.D.], red.izd-va; TURBANOVA, N.A., tekhn. red.

[Biological problems of acclimatized plants] Pytannia biologii aklimatyzovanykh roslyn. Kyiv, 1963. 90 p. (MIRA 16:7)

1. Chlen-korrespondent AN Ukr.SSR (for Zősimovich).
(Ukraine--Plant introduction)

Polyploid sugar beets. Vest.AN SSSR 33 no.2#66-68 F *63.				
1. Chlen-korrespondent (Polyploidy)	(MIRA 16:2) Thlen-korrespondent AN UkrSSR. (Polyploidy) (Ukraine-Sugar beet breading)			
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"Peculiarity in some rec	iprocal hybrids of cultivated b	eetu."	
report submitted to 10th	Intl Botanical Cong, Edinburgh	, 3-12 Aug 64.	
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ZOSIMOVICH, V.P. [Zosymovych, V.P.]; PANIN, V.A. [Pumin, V.O.]

Study of reciprocal triploid hybrids and parental forms of sugar beets. Dop. AN URSR no.7:950-953 *65.

(MIRA 18:8)

1. Institut botaniki AN UkrSSR. 2. Chlen-korrespondent AN UkrSSE (for Zosimovich).

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430006-5"

ZOSIMOVICH, V.P., red.otv.; MODILEVSKIY, Ya.S., red.; KOLESNIK,
N.B., doktor biol. nauk, red.; KHUDYAK, M.I., kand.
biol. nauk, red.; KORDYUM, Ye.L., kand. biol. nauk, red.;
KUZNETSOVA, A.S., red.

[Cytology and genetica] TSitologiia i genetik. Kiev,
Naukova dumka, 1965. 223 p. (MIRA 19:1)

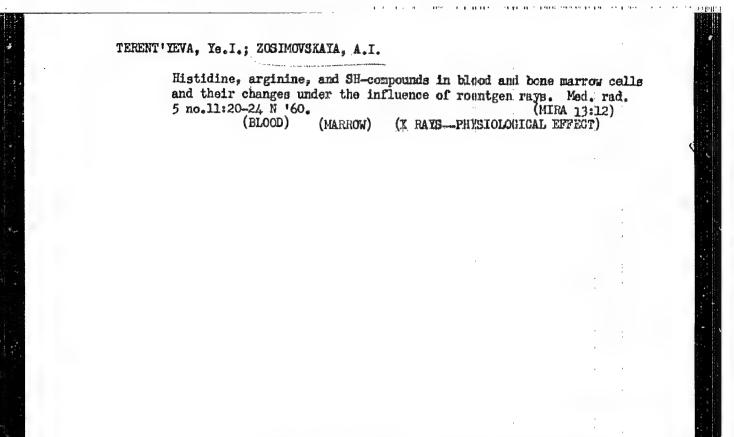
1. Akademiya nauk URSR, Kiev. 2. Chlen-korrespondent
AN Ukr.SSR i Institut botaniki AN Ukr.SSR (for Zosimovich).

SEPPAR, A.; PYATNITSKIY, V.; ZOSIMOVICH, Yu.

રુત્રોને પ્રત્યાન મુખ્યત્વે કરે જ તો ને જો તે જે જે જે છે. જે માર્ચિક જો માર્ચિક નો મોર્ચિક નો માર્ચિક નો મોર્ચિક નો માર્ચિક મોર્ચિક નો માર્ચિક મોર્ચિક નો માર્ચિક મોર્ચિક માર્ચિક માર્ચિક માર્ચિક માર્ચિક મોર્ચિક મોર્ચિક મોર્ચિક માર્ચિક માર્ચિક

How is your production likely to develop? Kuks i khim. no.3159-60 '62. (MURA 1513)

1. Magnitogorskiy metallurgicheskiy kombinat (for Sepper). (Coke intestry)



ZOSIMOVSKAYA, A.I.

Study of the mitotic cycles of marrow cells. Arkh. anat., gist. i embr. 43 no.11:99-111 N *62. (MIRA 17:8)

1. Laboratoriya eksperimental noy tsitologii i tsitokhimii Instituta radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR. Adres avtora: Moskva, V-312, 1-ya Akademicheskiy proyezd, 18, Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.

TERENT'YEVA, E.I.; ZOSIMOVSKAYA, A.I.; KAZANOVA, L.I.; TOTSKAYA, A.A.

Cytochemical investigation of the elements of hemopoiesis. TSitologiia 2 no.4:412-427 J1-Ag '60. (MIRA 13:9)

1. TSentral'nyy institut rematologii i perelivaniya krovi Ministerstva zdravookhraneniya SSSR, Moskva.

(HEMOPOIETIC SYSTEM)

ZOSIMOVSKAYA, A.I.

Studying the mitotic cycle in marrow cells of mice by the method of radioautography. Dokl. AN SSSR 151 no.31687-690 Jl '63.

(MIRA 16x9)

existence of their soldies distributed by the soldies of the soldi

1. Institut radiatsionney i fiziko-khimichoskey biclegii AN SSSR. Predstavleno akademikem V.A.Engel'gardtom.
(AUTORADIOGRAPHY) (KARYOKINESIS) (MARROW)

USSR/General Problems of Pathology - Tumors. Comparative Oncology. U Human Neoplasms.

Abs Jour : Ref Zhur Biol., No 1, 1959, 4229

Author : Terent'yeva, E.I., Zosimovskaya, A.I., Kazamova, L.I.

Inst : Title : Cytochemical Investigations of the Elements of Hemopole-

sis. I. The Content of Fat, Glycogen and Nucleinic Acid in the Blood Cells and in the Bone Marrow of Heal-

thy Humans and Those Suffering from Leukoses

Orig Pub : Probl. genatol. i perelimaniya krovi, 1957, 2, No 5,

24-31. 64.

Abstract : Drops of fat within the cells of the bone marrow (BM)

of healthy subjects are contained in the form of traces only in single myelo- and metamyelocytes, in occasional nature granulocytes and in lymphocytes. They are demonstrated in moderate amounts in leudocytes of the periphe-

ral blood. The glycogen content in the hemopoietic

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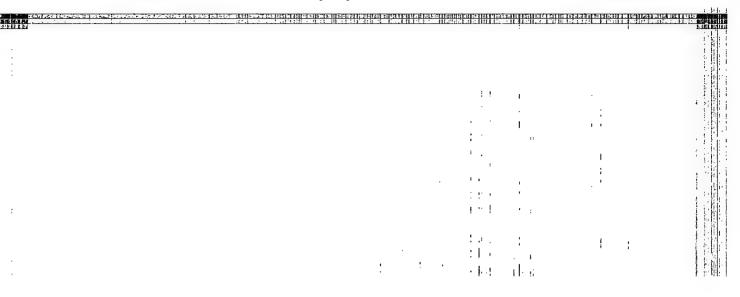
USSR/General Problems of Pathology - Tumors. Comparative Oncology. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4229

and lymphadenosis (CL) (14, 13,). The glycogen content in the hemopoeitic cells is decreased without relation to the form of the illness. As the condition of the patient becomes impaired an increase of the fat content and a decrease of glycogen is observed in the blood cells and in the cells of the bone marrow. In the acute and aubacute course of the disease the decrease of the quantity of nucleinic acids particularily of RNA is observed in the hemopoietic cells. With impairment of the condition a decrease of the value of DMA and RMA is often observed; with improvement some increase of the nucleinic acids is observed in the hemopoietic cells. In OM and CL the content of RNA is decreased, and DNA fluctuates within a small range as compared with normal. The content of DNA in the hemopoletic cells is inconstant in CL. The content of nucleinic acids increases with the

Card 3/4

- 37 -



YEPIFANOVA, O.I.; ZOSIMOVSKAYA, A.I.; LOMAKINA, L. Ya; GRUSHINA, N.V.; SMOLENSKAYA, I.N.

Comparative study of the duration of mitosis and interkinesis in tissues of mice with the aid of colchicine and irradiation. Biul.eksp.biol. i med. 55 no.1:96-100 Ja'63. (MIRA 16:7)

1. Iz laboratorii eksperimental'noy tsitologii i tsitokhimii Instituta radiatsionnoy i fiziko-khimicheskoy biologii (dir. akademik V.A.Engel'gardt) AN SSSR Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.A.Engel'garton.

(KARYOKINESIE) (COLCHICINE—PHYSIOLOGICAL EFFECT)

(RADIATION—PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430006-5"

TEREST YEVA, R.I.; ZOSIMOVSKAYA, A.I.; KAZANOVA, L.I.; FAYNBHTEYN, F.R.

Cytochemical studies in leukemia. Probl.gemat.1 perel.krovi 4 no.11: 39-49 N '59. (MIRA 13:3)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (direktor - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov) Ministerstva zdravookhraneniya SSSR. (LEUKEMIA chemistry)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430006-5"

TERENT'YEVA, E.I., prof.; ZOSIMOVSKAYA, A.I.; KAZAFOVA, L.I.; SUKYASYAN, G.V.

Cytochemical study of hematopoietic elements in radiation injury.

Probl.gemat.i perel.krovi no.3:47-52 162. (MIRA 15:3)

l. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMI SSSR prof. A.A. Bagdasarov [deceased]) Ministerstva zdravookhraneniya SSSR. (RADIATION SICKNESS) (HEMATOPOLETIC STSTEM)

ZOS INOVSKAYA, A.I.; KAZANOVA, L.I.; PAYNSHTEYN, P.R.

Cytochemical studies on the hemopolistic elements in patients with aplastic and hyoplastic ansulas. Probl. genat. i perel. krovi 3 no.5: 25-31 S-0 '58. (MIRA 11:11)

l. Is TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMH SSSR prof. A.A. Bagdasarov) Ministersa zdravookhraneniya SSSR.

(ANEMIA, APIASTIC, pathology

cytochem. changes in hemopoletic elements in aplastic & hypoplastic anemias (2018))

TERENT YEVA, E.I.; ZOSIHOVSKAYA, A.I.; KAZANOVA, L.I. **一种的性性性性的** Cytochemical examination of hemopoletic elements. Report No.1: Fat, glycogen, and nucleic acid content of blood cells and bone marrow in healthy individuals and in leukosis [with summary in English, p.64]. Problegemet. i perelekrovi 2 no.5:24-31 D-0 57. (MIRA 11:1) 1. Iz TSentral'nogo ordena Lenina instituta genatologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov) Ministerstva zdravookhraneniya SSSR. (LEUKEMIA, metab. fat, glycogen & nucleic acid content in bone narrow calls & in blood cells) (FAT LIPIDS, metab. content in blood cells & bone marrow cells in leukemia) (GLYCOGEN. metab. same)

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